Datasheet for ABIN6699146

Goat anti-Rat IgG Antibody (DyLight 488) - Preadsorbed

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Overview

Quantity:	100 µg
Target:	IgG
Reactivity:	Rat
Host:	Goat
Clonality:	Polyclonal
Conjugate:	DyLight 488
Application:	Western Blotting (WB), FLISA, Fluorescence Microscopy (FM), Dot Blot (DB)

Product Details

Purpose:	Rat IgG (H&L) Antibody DyLight™ 488 Conjugated Pre-Adsorbed
Immunogen:	Rat IgG whole molecule
Isotype:	IgG
Cross-Reactivity (Details):	Minimal crossreactivity against Bv Ch Gt GP Ham Hs Hu Ms Rb & Sh Serum Proteins
Characteristics:	Goat Anti-Rat IgG DyLight 488™ Conjugated Antibody, Goat Anti-Rat IgG Antibody DyLight 488™ Conjugation,Anti-Rat IgG (H&L) DyLight™488 Antibody generated in goat detects reactivity to Rat IgG.
Purification:	Preadsorption: Pre-Adsorbed
Labeling Ratio:	4.9

Target Details

Target:	IgG
Abstract:	IgG Products
Target Type:	Antibody
Background:	Secreted as part of the adaptive immune response by plasma B cells, immunoglobulin G constitutes 75 % of serum immunoglobulins. Immunoglobulin G binds to viruses, bacteria, as well as fungi and facilitates their destruction or neutralization via agglutination (and thereby immobilizing them), activation of the compliment cascade, and opsonization for phagocytosis. The whole IgG molecule possesses both the F(c) region, recognized by high-affinity Fc receptor proteins, as well as the F(ab) region possessing the epitope-recognition site. Both the Heavy and Light chains of the antibody molecule are present. Secondary Antibodies are available in a variety of formats and conjugate types. When choosing a secondary antibody product, consideration must be given to species and immunoglobulin specificity, conjugate type, fragment and chain specificity, level of cross-reactivity, and host-species source and fragment composition. This Anti-Rat IgG is conjugated to DyLight™488.

Application Details

Application Notes:	FLISA_Dilution: >1:10,000 IF_Microscopy_Dilution: >1:5,000 Western_Blot_Dilution: >1:10,000 Other: User Optimized
Comment:	Anti-Rat IgG (H&L) DyLight™488 Antibody has been tested by dot blot and is designed for immunofluorescence microscopy, fluorescence based plate assays (FLISA) and fluorescent western blotting. This product is also suitable for multiplex analysis, including multicolor imaging, utilizing various commercial platforms. The emission spectra for this DyLight™ conjugate match the principle output wavelengths of most common fluorescence instrumentation. Suggested Applications: IF
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstitution Volume: 100 µL Reconstitution Buffer: Restore with deionized water (or equivalent)

Handling

Concentration:	1.0 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free, 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store conjugated secondary antibody at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. Conjugated Secondary Antibody is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

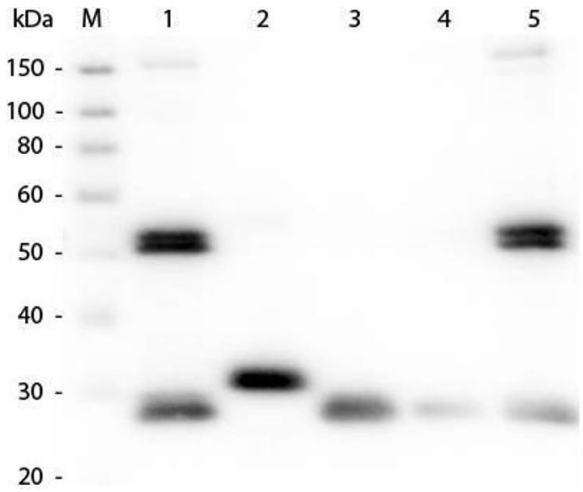
Publications

Product cited in:

Al Amin, Salahuddin, Imai, Hiramatsu: "Characteristics of Enteroendocrine Cells of White Leghorn Chickens, Gallus gallus, Before and After Hatching." in: **The journal of poultry science**, Vol. 60, pp. 2023029, (2023) (PubMed).

Igase, Morinaga, Kato, Tsukui, Sakai, Okuda, Mizuno: "Establishment of rat anti-canine DEP domain containing 1B (DEPDC1B) monoclonal antibodies." in: **The Journal of veterinary medical science**, Vol. 82, Issue 4, pp. 483-487, (2020) (PubMed).

Pukhlyakova, Kirillova, Kraus, Zimmermann, Technau: "A cadherin switch marks germ layer formation in the diploblastic sea anemone Nematostella vectensis." in: **Development (Cambridge, England)**, Vol. 146, Issue 20, (2020) (PubMed).



Western Blotting

Image 1. Western Blot of Anti-Rat IgG (H&L) (GOAT) Antibody (Min X Bv Ch Gt GP Ham Hs Hu Ms Rb & Sh Serum Proteins). Lane M: 3 µl Molecular Ladder. Lane 1: Rat IgG whole molecule. Lane 2: Rat IgG F(c) Fragment. Lane 3: Rat IgG Fab Fragment. Lane 4: Rat IgM Whole Molecule. Lane 5: Rat Serum. All samples were reduced. Load: 50 ng per lane. Block: ABIN925618 for 30 min at RT. Primary Antibody: Anti-Rat IgG (H&L) (GOAT) Antibody (Min X Bv Ch Gt GP Ham Hs Hu Ms Rb & Sh Serum Proteins) 1:1,000 for 60 min at RT. Secondary Antibody: Anti-Goat IgG (DONKEY) Peroxidase Conjugated Antibody 1:40,000 in ABIN925618 for 30 min at RT. Predicted/Obsevered Size: 25 and 55 kDa for Rat IgG and Serum, 25 kDa for F(c) and Fab, 78 and 25 kDa for IgM. Rat F(c) migrates slightly higher.